BLUEPRINTS AND DRAWINGS  
Course Syllabus

<table>
<thead>
<tr>
<th>Course Number:</th>
<th>TRGA-1107</th>
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<tbody>
<tr>
<td>OHLAP Credit:</td>
<td>No</td>
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<tr>
<td>OCAS Code:</td>
<td>None</td>
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<tr>
<td>Course Length:</td>
<td>28 Hours</td>
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<tr>
<td>Career Cluster:</td>
<td>Transportation, Distribution &amp; Logistics</td>
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<td>Career Pathway:</td>
<td>Aviation Maintenance Technology</td>
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<tr>
<td>Career Major(s):</td>
<td>General Aviation</td>
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</tbody>
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Pre-requisite(s): Students will interpret blue prints and schematics, study symbols, blueprint references, and use drawing tools to develop aircraft drawings. Graphs and charts will be used in determining aircraft system capabilities.

Textbooks:  
Dale Crane, Dictionary of Aviation Terms, Aviation Supplies and Academics, 1997  
FAA, FAR Handbook for Aviation Maintenance Technicians, Jeppesen, Sanders, Inc.. 2001  
FAA, Standards for Aviation Maintenance Handbook, Jeppesen, Sanders, Inc.. 1985

Course Objectives:  
A. Lesson: USAGE AND INTERPRETATION  
1. Define terms related to blueprints and drawings.  
2. Identify types of aircraft drawings. (Level 2) (App. B,B,7)  
3. § Construct orthographic drawings. (Level 3) (App. B,B,8)  
4. Identify types of sectional views.  
5. § Make sketches using appropriate sketching techniques. (Level 3)  
6. § Make three-view isometric sketches or drawings. (Level 3) (App. B,B,8)  
7. Match types of pictorial views to their correct descriptions.  
9. Identify the types of lines and symbols found on blueprints. (Level 3) (App. B,B,7,9)  
   (Gen.B1)  
10. § Determine dimensions and notes on aircraft blueprints. (Level 3) (App. B,B,9)  
   (Gen.B2)  
11. § Determine tolerances for dimensions on aircraft drawings. (Level 3) (App. B,B,9)  
12. Name information found in the title block of an aircraft drawing. (Gen.B7,B8,B9)  
13. Describe usage of fuselage station numbers, water lines, buttock lines, and wing station numbers.  
14. § Interpret information on graphs and charts. (Level 3) (App. B,B,10)  
15. Perform basic geometric exercises. (Gen.B6,B3)  
Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures:
1. Students are graded on theory and shop practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, F=0-69%.

Description of Classroom, Laboratories, and Equipment:

Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit:

The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility:
The student must maintain a grade point average of 2.0 or better.